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## NOTICE OF ALLOWANCE AND FEE(S) DUE

23632

7590

02/06/2009

SHELL OIL COMPANY P O BOX 2463 HOUSTON, TX 772522463 EXAMINER
TURNER, SONJI LUCAS

PAPER NUMBER

ART UNIT

DATE MAILED: 02/06/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,123	09/18/2006	Lih-Der Tee	TS6458US	9926

TITLE OF INVENTION: METHOD AND SEPARATOR FOR CYCLONIC SEPARATION OF A FLUID MIXTURE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/06/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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							(Signature)	
							(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTC	DRNEY DOCKET NO.	CONFIRMATION NO.	
10/593,123	09/18/2006	•	Lih-Der Tee			TS6458US	9926	
TITLE OF INVENTION	: METHOD AND SEPA	RATOR FOR CYCLO	NIC SEPARATION OF A F	LUID MIXTURE				
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	05/06/2009	
EXAM	INER	ART UNIT	CLASS-SUBCLASS	]				
TURNER, SO	ONJI LUCAS	1797	095-271000	J				
1. Change of corresponde	ence address or indication	n of "Fee Address" (37	2. For printing on the p	atent front page, lis	st			
CFR 1.363).	andanca address (ar Cha	nge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a 2					
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☐ "Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.	ication (or "Fee Address' )2 or more recent) attach	" Indication form ed. Use of a Customer	(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or type	pe)				
PLEASE NOTE: Unl	less an assignee is ident h in 37 CFR 3.11. Comr	ified below, no assigned	e data will appear on the p OT a substitute for filing an	atent. If an assign	ee is i	dentified below, the do	ocument has been filed for	
(A) NAME OF ASSIG	•		(B) RESIDENCE: (CITY	· ·	OUN	ΓRY)		
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Please check the appropr	iate assignee category or	categories (will not be p	printed on the patent):	Individual 🖵 Co	orporat	ion or other private gro	up entity Government	
4a. The following fee(s)	are submitted:	2	4b. Payment of Fee(s): ( <b>Ple</b> a	se first reapply ar	ıy pre	viously paid issue fee s	shown above)	
Issue Fee			A check is enclosed.					
Publication Fee (No small entity discount permitted) Advance Order - # of Copies			Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any					
Advance Order - 1	or copies		overpayment, to Depo	sit Account Number	er	(enclose ar	n extra copy of this form).	
<ol> <li>Change in Entity State</li> <li>a. Applicant claim</li> </ol>	<b>tus</b> (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no lon	ger claiming SMAl	LLEN	TITY status. See 37 CF	FR 1.27(g)(2).	
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Authorized Signature				Date				
Typed or printed name This collection of information is required by 37 CFR 1.311. The informa				•				
an application. Confident submitting the completed this form and/or suggesti	tiality is governed by 35 1 application form to the ions for reducing this bu	U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to t	R 1.14. This collection is est y depending upon the indiv he Chief Information Office	timated to take 12 i vidual case. Any co er. U.S. Patent and	ninute mmen Trader	s to complete, including ts on the amount of tin mark Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. For Patents, P.O. Box 1450,	

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10/593,123	09/18/2006	Lih-Der Tee	TS6458US	9926	
23632 75	590 02/06/2009		EXAM	INER	
SHELL OIL CO	MPANY	TURNER, SONJI LUCAS			
P O BOX 2463			ART UNIT	PAPER NUMBER	
HOUSTON, TX 7	72522463		1797		
			DATE MAILED: 02/06/2009		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 279 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 279 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/502 122	TEE ET AL.	
Notice of Allowability	10/593,123 <b>Examiner</b>	Art Unit	
	OON II TUDNED	4707	
	SONJI TURNER	1797	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not includ nunication will be mailed in due	ed course. <b>THIS</b>
1. This communication is responsive to <u>12/18/2008</u> .			
2. The allowed claim(s) is/are <u>1-7</u> .			
3. Acknowledgment is made of a claim for foreign priority ur	nder 35 U.S.C. § 119(a)-(d	) or (f).	
a) ☐ All b) ☐ Some* c) ☐ None of the:			
<ol> <li>Certified copies of the priority documents have</li> </ol>	e been received.		
2. Certified copies of the priority documents have	e been received in Applicat	ion No	
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been receiv	ed in this national stage applica	ition from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the re	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew ( PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			e back) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MA	TERIAL must be submitted.	Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of	Informal Patent Application	
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
3. Information Disclosure Statements (PTO/SB/08),	Paper No 7.	o./Mail Date 's Amendment/Comment	
Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit	8. 🔲 Examiner	s Statement of Reasons for Allo	owance
of Biological Material	9. 🔲 Other	<u>_</u> .	

## Response to Remarks

Applicant's remarks, see page 5, filed December 18, 2008, with respect to claim 6 have been fully considered and are persuasive. The rejection under 35 U.S.C. §112, second paragraph of claim 6 has been withdrawn.

# Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

As stated in the previous Office action, the prior art of record does not teach or fairly suggest the limitations for the perforated inflow section of the liquid outlet conduit that has several rows of longitudinally spaced perforations that are co-axial to a water cut control conduit which is rotatable relative to the fixed liquid outlet conduit with several rows of longitudinally spaced perforations that has rows in varying lengths. In addition, the prior art of record does not teach or fairly suggest the limitation of a plurality of liquid outlet openings that are located at different vertical levels and through which liquid is discharged into a liquid outlet conduit as disclosed in instant claim 1. Likewise, it would not have been obvious to one of ordinary skill in the art at the time of the invention to provide such structure, since the prior art of record does not suggest such modification. Accordingly, independent claims 1 and 6 and the respective dependent claims 2-5 and 7 are allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/593,123 Page 3

Art Unit: 1797

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sonji Turner whose telephone number is 571-272-1203. The examiner can normally be reached on Monday - Friday, 10:00 am – 2:00 pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

st 1/29/2009

> /DUANE SMITH/ Supervisory Patent Examiner, Art Unit 1797 2-2-09